

DOCKET NO.: 246703US2S

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Takeshi KAJIYAMA

SERIAL NO: NEW APPLICATION

FILED: HERewith

FOR: MAGNETIC MEMORY DEVICE AND METHOD OF MANUFACTURING
THE SAME

STATEMENT OF RELEVANCY

Reference AA (US 6,590,244) on Form PTO 1449:

This reference shows similar MRAM structure.

Reference AO (JP 2002-289807) on Form PTO 1449:

A means in the magnetic memory using the tunnel junction element, the magnetic field generating efficiency from write-in wiring is raised, furthermore, in order to prevent the incorrect writing to the half-selection cell at the time of writing, the permission width of a rewriting current value is raised is offered. It arranges so that it may run write-in wiring of two to abbreviation parallel near the tunnel junction element. In the whole memory domain, since write-in wiring of two intersects perpendicularly and serves as crossing point type arrangement, cell selection is easy.

Reference AP (JP 2001-519092) on Form PTO 1449:

Magnetic integrated circuit structure shows the feature that it is desirable for the purpose which realizes a magnetic semiconductor memory. In collaboration with a career deviation type magnetic field sensor, each of various magnetic structures realized the state where the move direction of the career of sensitivity current and a magnetic field crossed at right angles substantially, and thereby, has attained the maximum sensitivity. Generally, the above-mentioned magnetic structure attains magnetic field control of a high dimension efficient.

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STATEMENT OF RELEVANCY

Reference AQ (JP 2002-110938) on Form PTO 1449:

The magnetic memory storage by which the power consumption at the time of writing was reduced is offered. The magnetic memory storage of this invention has the 1st and 2nd wiring which crossed mutually and was estranged, the magnetic resistance effect film equipped with the non-magnetism layer which intervenes between a magnetization adherence layer, a magnetic record layer, and a magnetic record layer that is located in the domain which crosses mutually the 1st and 2nd wiring and the 1st magnetic film in which one pair of side-wall parts which oppose the bottom which opposes the back of a confrontation side with the magnetic resistance effect film of the 1st wiring in the above-mentioned domain at least and the both-sides side of the 1st wiring, respectively were formed and that is an implication about any one of the high saturation magnetization soft magnetism material containing cobalt, and the metal-nonmetallic nano granular films.

LIST OF RELATED CASES

<u>Docket Number</u>	<u>Serial or Patent Number</u>	<u>Filing or Issue Date</u>	<u>Inventor/ Applicant</u>
221105US2S	6,590,244	07/08/03	ASAO et al.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Takeshi KAJIYAMA

SERIAL NO: New Application

GAU:

FILED: Herewith

EXAMINER:

FOR: MAGNETIC MEMORY DEVICE AND METHOD OF MANUFACTURING THE SAME

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☒ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 246703US2S		SERIAL NO. New Application	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT Takeshi KAJIYAMA			
				FILING DATE Herewith		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	6,590,244	07/08/2003	Yoshiaki ASAO, et al.			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
	AO	2002-289807	10/04/2002	JAPAN		X	
	AP	2001-519092	10/16/2001	JAPAN		X	
	AQ	2002-110938	04/12/2002	JAPAN		X	
	AR						
	AS						
	AT						
	AU						
	AV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AW						
	AX						
	AY						
	AZ					<input type="checkbox"/> Additional References sheet(s) attached	
Examiner					Date Considered		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							